



DEPARTMENT OF THE INTERIOR

Fish and Wildlife Service

[FWS-R4-ES-2020-N034; FXES11140400000-201-FF04E00000]

Endangered Species; Recovery Permit Applications

AGENCY: Fish and Wildlife Service, Interior.

ACTION: Notice of receipt of permit applications; request for comments.

SUMMARY: We, the U.S. Fish and Wildlife Service, have received applications for permits, permit renewals and/or permit amendments to conduct activities intended to enhance the propagation or survival of endangered species under the Endangered Species Act of 1973, as amended. We invite the public and local, State, Tribal, and Federal agencies to comment on these applications. Before issuing any of the requested permits, we will take into consideration any information that we receive during the public comment period.

DATES: We must receive written data or comments on the applications by [INSERT DATE 30 DAYS AFTER DATE OF PUBLICATION IN THE *FEDERAL REGISTER*].

ADDRESSES: *Reviewing Documents:* Documents and other information submitted with the applications are available for review, subject to the requirements of the Privacy Act and Freedom of Information Act. Submit a request for a copy of such documents to Karen Marlowe (see **FOR FURTHER INFORMATION CONTACT**).

Submitting Comments: If you wish to comment, you may submit comments by one of the following methods:

- *U.S. mail:* U.S. Fish and Wildlife Service Regional Office, Ecological Services, 1875 Century Boulevard, Atlanta, GA 30345 (Attn: Karen Marlowe, Permit Coordinator).

- *Email:* permitsR4ES@fws.gov. Please include your name and return address in your email message. If you do not receive a confirmation from the U.S. Fish and Wildlife Service that we have received your email message, contact us directly at the telephone number listed in **FOR FURTHER INFORMATION CONTACT**.

FOR FURTHER INFORMATION CONTACT: Karen Marlowe, Permit Coordinator, 404–679–7097 (telephone), karen_marlowe@fws.gov (email), or 404–679–7081 (fax). Individuals who are hearing or speech impaired may call the Federal Relay Service at 1–800–877–8339 for TTY assistance.

SUPPLEMENTARY INFORMATION: We invite review and comment from local, State, and Federal agencies and the public on applications we have received for permits to conduct certain activities with endangered and threatened species under section 10(a)(1)(A) of the Endangered Species Act of 1973, as amended (ESA; 16 U.S.C. 1531 *et seq.*), and our regulations in the Code of Federal Regulations (CFR) at 50 CFR part 17. With some exceptions, the ESA prohibits take of listed species unless a Federal permit is issued that authorizes such take. The ESA’s definition of “take” includes hunting, shooting, harming, wounding, or killing, and also such activities as pursuing, harassing, trapping, capturing, or collecting.

A recovery permit issued by us under section 10(a)(1)(A) of the ESA authorizes the permittee to take endangered or threatened species while engaging in activities that are conducted for scientific purposes that promote recovery of species or for enhancement of propagation or survival of species. These activities often include the capture and collection of species, which would result in prohibited take were a permit not issued. Our regulations implementing section 10(a)(1)(A) for these permits are found at 50 CFR 17.22 for endangered wildlife species, 50 CFR 17.32 for threatened wildlife species, 50 CFR 17.62 for endangered plant species, and 50 CFR 17.72 for threatened plant species.

Permit Applications Available for Review and Comment

Proposed activities in the following permit requests are for the recovery and enhancement of propagation or survival of the species in the wild. The ESA requires that we invite public comment before issuing these permits. Accordingly, we invite local, State, Tribal, and Federal agencies and the public to submit written data, views, or arguments with respect to these applications. The comments and recommendations that will be most useful and likely to influence agency decisions are those supported by quantitative information or studies.

Before including your address, phone number, email address, or other personal identifying information in your comment, you should be aware that your entire comment—including your personal identifying information—may be made publicly available at any time. While you can ask us in your comment to withhold your personal identifying information from public review, we cannot guarantee that we will be able to do so.

Permit Application Number	Applicant	Species	Location	Activity	Type of Take	Permit Action
TE 62026D-1	Catherine Haase, Austin Peay State University, Clarksville, TN	Gray bat (<i>Myotis grisescens</i>), Indiana bat (<i>Myotis sodalis</i>), and northern long-eared bat (<i>Myotis septentrionalis</i>)	Kentucky and Tennessee	Study community structure and habitat use	Hand-capture from culverts, identify, and release	Amendment
TE 32397A-5	James Godwin, Auburn University, Auburn, AL	Alabama red-bellied turtle (<i>Pseudemys alabamensis</i>), eastern indigo snake (<i>Drymarchon corais couperi</i>), flattened musk turtle (<i>Sternotherus depressus</i>) and Black Warrior waterdog (<i>Necturus alabamensis</i>)	Alabama and Mississippi	Population management, scientific research, population surveys, and monitoring	Turtles: Capture, handle, mark by marginal scute, PIT-tag, collect tissue and blood samples, conduct oral and cloacal swabbing, salvage hatched or depredated eggs, monitor nests, and insert data logger into nests; Eastern indigo snake: Capture, handle, PIT-tag, collect blood, collect cloacal swab, and scale-clip Black Warrior waterdog:	Renewal/ Amendment

					Capture, handle, temporarily hold to photograph and measure, PIT-tag, and collect tail tip tissue sample	
TE 60238B-1	Georgia Museum of Natural History, Athens, GA	Indiana bat (<i>Myotis sodalis</i>), gray bat (<i>Myotis grisescens</i>), and northern long-eared bat (<i>Myotis septentrionalis</i>)	Alabama, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee, and Virginia	Presence/absence surveys, studies to document habitat use, and population monitoring	Capture with mist nets, handle, identify, and release	Renewal/Amendment
TE 087176-4	David Eisenhour, Morehead, KY	Blackside dace (<i>Chrosomus Cumberlandensis</i>), relict darter (<i>Etheostoma chienense</i>), duskytail darter (<i>Etheostoma percnurum</i>), Kentucky arrow darter (<i>Etheostoma spilotum</i>), Cumberland darter (<i>Etheostoma susanae</i>), and palezone shiner (<i>Notropis albizonatus</i>)	Kentucky and Tennessee	Presence/absence surveys	Capture, handle, identify, and release	Renewal/Amendment
TE 022690-5	Meadowview Biological Research Station, Woodford, VA	<i>Sarracenia oreophila</i> (green pitcher plant), <i>Sarracenia rubra</i> ssp. <i>alabamensis</i> (Alabama canebrake pitcher plant), and <i>Sarracenia rubra</i> ssp. <i>jonesii</i> (mountain sweet pitcher plant)	Virginia	Interstate commerce	Sale of artificially propagated specimens in interstate commerce	Renewal
TE 83011B-1	Prescott Weldon, Bristol, VA	Gray bat (<i>Myotis grisescens</i>), Indiana bat (<i>Myotis sodalis</i>), and northern long-eared bat (<i>Myotis septentrionalis</i>)	Alabama, Arkansas, Connecticut, Delaware, Florida, Georgia,	Presence/absence surveys, population monitoring,	Enter hibernacula or maternity roost caves, capture with mist nets	Renewal

			Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Mississippi, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Vermont, Virginia, West Virginia, Wisconsin, and Wyoming	and studies to document habitat use	or harp traps, handle, identify, band, radio-tag, and collect hair samples	
PER 0002010	Shawn Zeringue-Krosnick, Tennessee Tech, Cookeville, TN	<i>Physaria globosa</i> (Short's bladderpod)	Federal lands in Tennessee	Examination of pollination, reproductive success, and life history traits	Collection of flowers and seeds and collection of one voucher specimen from each population	New
TE 65002A-2	Robert Oney, Versailles, KY	Gray bat (<i>Myotis grisescens</i>), Indiana bat (<i>Myotis sodalis</i>), northern long-eared bat (<i>Myotis</i>	Alabama, Arkansas, Connecticut,	Presence/absence surveys,	Enter hibernacula or maternity roost	Renewal

		<i>septentrionalis</i>), and Virginia big-eared bat (<i>Corynorhinus</i> (=Plecotus) <i>townsendii virginianus</i>)	Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Mississippi, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Vermont, Virginia, West Virginia, Wisconsin, and Wyoming	population monitoring, and studies to document habitat use	caves, capture with mist nets or harp traps, handle, identify, band, radio-tag, and collect hair samples	
TE 148282-6	Jack Wilhide, Franklin, TN	Gray bat (<i>Myotis grisescens</i>), Indiana bat (<i>Myotis sodalis</i>), northern long-eared bat (<i>Myotis septentrionalis</i>), Ozark big-eared bat (<i>Corynorhinus</i> (=Plecotus) <i>townsendii ingens</i>), and Virginia big-eared bat (<i>Corynorhinus</i> (=Plecotus) <i>townsendii virginianus</i>)	Alabama, Arkansas, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine,	Presence/absence surveys, population monitoring, and studies to document habitat use	Enter hibernacula or maternity roost caves, capture with mist nets or harp traps, handle, identify, band, radio-tag, light-tag, wing-	Renewal

			Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Vermont, Virginia, West Virginia, Wisconsin, and Wyoming		punch, and collect hair samples	
TE 94849B-2	Copperhead Environmental Consulting, Paint Lick, KY	Gray bat (<i>Myotis grisescens</i>), Indiana bat (<i>Myotis sodalis</i>), northern long-eared bat (<i>Myotis septentrionalis</i>), Ozark big-eared bat (<i>Corynorhinus</i> (=Plecotus) <i>townsendii ingens</i>), and Virginia big-eared bat (<i>Corynorhinus</i> (=Plecotus) <i>townsendii virginianus</i>)	Alabama, Arkansas, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi,	Presence/absence surveys, studies to document habitat use, population monitoring, and to evaluate potential impacts of white-nose syndrome or other threats	Enter hibernacula or maternity roost caves, capture with mist nets or harp traps, handle, identify, collect hair samples, band, radio tag, light-tag, swab, and wing-punch	Renewal/Amendment

			Missouri, Montana, Nebraska, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Vermont, Virginia, West Virginia, Wisconsin, Wyoming			
PER 0002649	Joey Weber, Candler, NC	Gray bat (<i>Myotis grisescens</i>), Indiana bat (<i>Myotis sodalis</i>), northern long-eared bat (<i>Myotis septentrionalis</i>), and Virginia big-eared bat (<i>Corynorhinus</i> (= <i>Plecotus townsendii virginianus</i>))	Alabama, Arkansas, Connecticut, Delaware, District of Columbia, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, New	Presence/absence surveys, population monitoring, and studies to document habitat use	Enter hibernacula or maternity roost caves, capture with mist nets or harp traps, handle, identify, band, radio-tag, and collect hair samples	New

			Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Vermont, Virginia, West Virginia, Wisconsin, Wyoming			
PER 0002076	California Carnivores, Sebastopol, CA	<i>Pinguicula ionantha</i> (Godfrey's butterwort), <i>Sarracenia oreophila</i> (green pitcher plant), <i>Sarracenia rubra</i> ssp. <i>alabamensis</i> (Alabama canebrake pitcher plant), and <i>Sarracenia rubra</i> ssp. <i>jonesii</i> (mountain Sweet pitcher plant)	California	Interstate commerce	Sale of artificially propagated specimens in interstate commerce	New
PER 0007863	Jana Day, Kentucky Transportation Cabinet	FISH: Relict darter (<i>Etheostoma chienense</i>), Kentucky arrow darter (<i>Etheostoma spilotum</i>), Cumberland darter (<i>Etheostoma susanae</i>), palezone shiner (<i>Notropis albizonatus</i>), and blackside dace (<i>Phoxinus cumberlandensis</i>); FRESHWATER MUSSELS: Cumberland elktoe (<i>Alasmidonta atropurpurea</i>), spectaclecase (<i>Cumberlandia monodonta</i>), fanshell (<i>Cyprogenia stegaria</i>), dromedary pearlymussel (<i>Dromus dromas</i>), Cumberlandian combshell (<i>Epioblasma brevidens</i>), oyster	Kentucky	Presence/absence surveys	Capture, handle, identify, and release	New

		mussel (<i>Epioblasma capsaeformis</i>), tan riffleshell (<i>Epioblasma florentina walkeri</i>), purple cat's paw (=purple cat's paw pearlymussel) (<i>Epioblasma obliquata obliquata</i>), white catspaw (pearlymussel) (<i>Epioblasma obliquata perobliqua</i>), northern riffleshell (<i>Epioblasma torulosa rangiana</i>), tubercled blossom (pearlymussel) (<i>Epioblasma torulosa torulosa</i>), snuffbox (<i>Epioblasma triquetra</i>), cracking pearlymussel (<i>Hemistena lata</i>), pink mucket (pearlymussel) (<i>Lampsilis abrupta</i>), scaleshell mussel (<i>Leptodea leptodon</i>), ring pink (mussel) (<i>Obovaria retusa</i>), littlewing pearlymussel (<i>Pegias fabula</i>), white wartyback (pearlymussel) (<i>Plethobasus cicatricosus</i>), orangefoot pimpleback (pearlymussel) (<i>Plethobasus cooperianus</i>), sheepnose mussel (<i>Plethobasus cyphus</i>), clubshell (<i>Pleurobema clava</i>), rough pigtoe (<i>Pleurobema plenum</i>), slabside pearlymussel (<i>Pleuonaia dolabelloides</i>), fat pocketbook (<i>Potamilus capax</i>), fluted kidneyshell (<i>Ptychobranhus subtentus</i>), rabbitsfoot (<i>Quadrula cylindrica cylindrica</i>), winged mapleleaf (<i>Quadrula fragosa</i>), rayed bean (<i>Villosa fabalis</i>), and Cumberland bean (pearlymussel) (<i>Villosa trabalis</i>);				
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		CRAYFISH: Big Sandy crayfish (<i>Cambarus callainus</i>)				
TE 33465A-2	USDA Forest Service, National Forests in Alabama, Montgomery, AL	Red-cockaded woodpecker (<i>Picoides borealis</i>)	Alabama, Florida, Georgia, Mississippi, and South Carolina	Population management and monitoring	Capture, band, drill nest cavities, install inserts, install restrictors, install snake and squirrel excluders, monitor nest cavities and artificial nest cavities, and translocate.	Amend
TE 132772-2	USDA Forest Service, National Forests in Alabama, Montgomery, AL	REPTILE: Flattened musk turtle (<i>Sternotherus depressus</i>); FISH: Blue shiner (<i>Cyprinella caerulea</i>), Cahaba shiner (<i>Notropis cahabae</i>), goldline darter (<i>Percina aurolineata</i>), and rush darter (<i>Etheostoma phytophilum</i>); FRESHWATER MUSSELS: Alabama moccasinshell (<i>Medionidus acutissimus</i>), Alabama pearlshell (<i>Margaritifera marrianae</i>), Coosa moccasinshell (<i>Medionidus parvulus</i>), Cumberlandian combshell (<i>Epioblasma brevidens</i>), dark pigtoe (<i>Pleurobema furvum</i>), fine-lined pocketbook (<i>Lampsilis altilis</i>), fuzzy pigtoe (<i>Pleurobema strodeanum</i>), orange-nacre mucket (<i>Lampsilis perovalis</i>), ovate clubshell (<i>Pleurobema perovatum</i>), southern acornshell (<i>Epioblasma othcaloogensis</i>), southern clubshell	National forests in Alabama.	Surveys and population monitoring	Capture, identify, measure, release, and salvage relict shells.	Renewal

		<i>(Pleurobema decisum)</i> , southern kidneyshell (<i>Ptychobranhus jonesi</i>), southern pigtoe (<i>Pleurobema georgianum</i>), southern sandshell (<i>Hamiota australis</i>), triangular kidneyshell (<i>Ptychobranhus greenii</i>), and upland combshell (<i>Epioblasma metastrata</i>); FRESHWATER GASTROPODS: Cylindrical lioplax (<i>Lioplax cyclostomaformis</i>), flat pebblesnail (<i>Lepyrium showalteri</i>), lacy elimia (<i>Elimia crenatella</i>), painted rocksnail (<i>Leptoxis taeniata</i>), round rocksnail (<i>Leptoxis ampla</i>), and tulotoma snail (<i>Tulotoma magnifica</i>)				
TE 12399A-5	Audubon Nature Institute, New Orleans, LA	Green (<i>Chelonia mydas</i>), Kemp's ridley (<i>Lepidochelys kempii</i>), hawksbill (<i>Eretmochelys imbricata</i>), leatherback (<i>Dermochelys coriacea</i>), loggerhead (<i>Caretta caretta</i>), and olive ridley (<i>Lepidochelys olivacea</i>) sea turtles	Louisiana	Monitoring of rehabilitated turtles	Insert PIT tag and attach flipper tag prior to release	Renewal
PER 0002667	Mitchell D. Kriege, Erlanger, KY	Spectaclecase (<i>Cumberlandia monodonta</i>), fanshell (<i>Cyprogenia stegaria</i>), dromedary pearlymussel (<i>Dromus dromas</i>), Cumberlandian combshell (<i>Epioblasma brevidens</i>), oyster mussel (<i>Epioblasma capsaeformis</i>), purple cat's paw (=purple cat's paw pearlymussel) (<i>Epioblasma obliquata obliquata</i>), white catspaw (pearlymussel) (<i>Epioblasma obliquata perobliqua</i>), northern riffleshell (<i>Epioblasma torulosa rangiana</i>), tubercled	Alabama, Arkansas, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Michigan, Minnesota, Mississippi, Missouri, New York, North Carolina, Ohio,	Presence/absence surveys	Capture, handle, identify, and release	New

		blossom (pearlymussel) (<i>Epioblasma torulosa torulosa</i>), snuffbox (<i>Epioblasma triquetra</i>), cracking pearlymussel (<i>Hemistena lata</i>), pink mucket (pearlymussel) (<i>Lampsilis abrupta</i>), Higgins eye (pearlymussel) (<i>Lampsilis higginsii</i>), ring pink (mussel) (<i>Obovaria retusa</i>), white wartyback (pearlymussel) (<i>Plethobasus cicatricosus</i>), orangefoot pimpleback (pearlymussel) (<i>Plethobasus cooperianus</i>), sheepnose mussel (<i>Plethobasus cyphus</i>), clubshell (<i>Pleurobema clava</i>), James spiny mussel (<i>Pleurobema collina</i>), rough pigtoe (<i>Pleurobema plenum</i>), fat pocketbook (<i>Potamilus capax</i>), fluted kidneyshell (<i>Ptychobranhus subtentus</i>), rabbitsfoot (<i>Quadrula cylindrica cylindrica</i>), winged mapleleaf (<i>Quadrula fragosa</i>), rayed bean (<i>Villosa fabalis</i>), and Cumberland bean (pearlymussel) (<i>Villosa trabalis</i>)	Oklahoma, Pennsylvania, Tennessee, Virginia, West Virginia, Wisconsin			
TE 66445B-1	Angelina D. Fowler, Nashville, TN	FISH: Blue shiner (<i>Cyprinella caerulea</i>), boulder darter (<i>Etheostoma wapiti</i>), and snail darter (<i>Percina tanasi</i>); CRAYFISH: Nashville crayfish (<i>Orconectes shoupi</i>)	Alabama and Tennessee	Presence/absence surveys	Capture, handle, identify, and release	Renewal
PER 0002899	George C. Fullerton, Tallahassee, FL	Red-cockaded woodpecker (<i>Picoides borealis</i>)	Alabama, Arkansas, Florida, Georgia, Louisiana,	Population management and monitoring	Capture, band, drill nest cavities, install inserts, install	New

			Mississippi, North Carolina, and South Carolina		restrictors, monitor nest cavities and artificial nest cavities, and translocate	
PER 0003043	National Audubon Society, Moss Point, MS	Green (<i>Chelonia mydas</i>), Kemp's ridley (<i>Lepidochelys kempii</i>), hawksbill (<i>Eretmochelys imbricata</i>), leatherback (<i>Dermochelys coriacea</i>), loggerhead (<i>Caretta caretta</i>), and olive ridley (<i>Lepidochelys olivacea</i>) sea turtles	Harrison County, Mississippi	Nest monitoring	Locate and mark nests, excavate nests following hatchling emergence, and inventory hatched nests	New
TE 171516-9	Copperhead Environmental Consulting, Inc., Paint Lick, KY	FISH: Kentucky arrow darter (<i>Etheostoma spilotum</i>), Cumberland darter (<i>Etheostoma susanae</i>), and blackside dace (<i>Phoxinus cumberlandensis</i>); FRESHWATER MUSSELS: Cumberland elktoe (<i>Alasmidonta atropurpurea</i>), spectaclecase (<i>Cumberlandia monodonta</i>), fanshell (<i>Cyprogenia stegaria</i>), dromedary pearlymussel (<i>Dromus dromas</i>), Cumberlandian combshell (<i>Epioblasma brevidens</i>), oyster mussel (<i>Epioblasma capsaeformis</i>), yellow blossom (pearlymussel) (<i>Epioblasma florentina florentina</i>), tan riffleshell (<i>Epioblasma florentina walkeri</i>), purple cat's paw (=purple cat's paw pearlymussel) (<i>Epioblasma obliquata obliquata</i>), northern riffleshell (<i>Epioblasma torulosa rangiana</i>), green blossom	Arkansas, Georgia, Illinois, Indiana, Kentucky, Missouri, Ohio, Tennessee, Virginia, West Virginia, and Wisconsin	Presence/absence surveys	Capture, handle, identify, release, and salvage relict shells	Renewal/Amendment

		<p>(pearlymussel) (<i>Epioblasma torulosa gubernaculum</i>), tubercled blossom</p> <p>pearlymussel) (<i>Epioblasma torulosa torulosa</i>), snuffbox</p> <p>(<i>Epioblasma triquetra</i>), turgid blossom</p> <p>pearlymussel) (<i>Epioblasma turgidula</i>), finerayed</p> <p>pigtoe (<i>Fusconaia cuneolus</i>), shiny</p> <p>pigtoe (<i>Fusconaia cor</i>), cracking</p> <p>pearlymussel (<i>Hemistena lata</i>),</p> <p>pink mucket</p> <p>(pearlymussel) (<i>Lampsilis abrupta</i>),</p> <p>scaleshell mussel (<i>Leptodea leptodon</i>), ring pink</p> <p>(mussel) (<i>Obovaria retusa</i>),</p> <p>littlewing pearlymussel (<i>Pegias fabula</i>), white wartyback</p> <p>(pearlymussel) (<i>Plethobasus cicatricosus</i>), orangefoot</p> <p>pimpleback</p> <p>(pearlymussel) (<i>Plethobasus cooperianus</i>), sheepnose</p> <p>mussel (<i>Plethobasus cyphyus</i>),</p> <p>clubshell (<i>Pleurobema clava</i>),</p> <p>James spinymussel (<i>Pleurobema collina</i>), southern</p> <p>clubshell (<i>Pleurobema decisum</i>),</p> <p>rough pigtoe (<i>Pleurobema plenum</i>),</p> <p>slabside pearlymussel (<i>Pleuonaia dolabelloides</i>), fat</p> <p>pocketbook (<i>Potamilus capax</i>),</p> <p>fluted kidneyshell (<i>Ptychobranhus subtentus</i>), rabbitsfoot (<i>Quadrula cylindrica cylindrica</i>), rough</p> <p>rabbitsfoot (<i>Quadrula cylindrica strigillata</i>), Appalachian</p>				
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		monkeyface (pearlymussel) (<i>Quadrula sparsa</i>), rayed bean (<i>Villosa fabalis</i>), purple bean (<i>Villosa perpurpurea</i>), and Cumberland bean (pearlymussel) (<i>Villosa trabalis</i>); CRAYFISH: Big Sandy crayfish (<i>Cambarus callainus</i>)				
TE 88778B-2	John W. Lamb, Arnold Air Force Base, TN	Gray bat (<i>Myotis grisescens</i>), Indiana bat (<i>Myotis sodalis</i>), and northern long-eared bat (<i>Myotis septentrionalis</i>)	Tennessee	Contaminant study	Collect fur and guano	Amendment
PER 0004778	Catherine M. Jachowski, Clemson University, Clemson, SC	Carolina heelsplitter (<i>Lasmigona decorata</i>)	South Carolina	Investigation of impediments to recruitment	Collect glochidia from fish fins and gills to sacrifice for DNA analysis, release captive-reared individuals produced at Orangeburg National Fish Hatchery into silos for growth and survival monitoring that includes weekly handling and measuring	New
TE 12379D-1	Robert A. McCleery, University of Florida, Gainesville, FL	Rice rat (silver rice rat) (<i>Oryzomys palustris natator</i>)	Monroe County, Florida, from Little Pine Key to Boca Chica Key	Assessing the impacts of Hurricane Irma on the rice rat	Radio-tag adults and monitor movements	Amendment

TE 54891B-1	Luke E. Dodd, Eastern Kentucky University, Richmond, KY	Gray bat (<i>Myotis grisescens</i>), Indiana bat (<i>Myotis sodalis</i>), and northern long-eared bat (<i>Myotis septentrionalis</i>)	Kentucky	Presence/ absence surveys and studies to document habitat use	Enter hibernacula or maternity roost caves, salvage dead bats, capture with mist nets and harp-traps, handle, identify, collect hair, band, attach radio- transmitters, swab, and wing-punch	Renewal
TE 069754-7	Gerald R. Dinkins, Knoxville, TN	FISH: 38 species; FRESHWATER MUSSELS: 88 species; FRESHWATER GASTROPODS: 14 species	Alabama, Arkansas, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maryland, Michigan, Minnesota, Mississippi, Missouri, North Carolina, Ohio, Pennsylvania, South Carolina, Tennessee, Virginia, West Virginia, and Wisconsin	Presence/ absence surveys	Capture, handle, identify, release, and salvage relict shells	Renewal/ Amendment
TE 62778B-2	Chanston T. Osborne, Aberdeen, NC	Gray bat (<i>Myotis grisescens</i>), Indiana bat (<i>Myotis sodalis</i>), and	Alabama, Arkansas, Connecticut,	Presence/ absence surveys	Capture with mist nets and harp traps,	Renewal

		northern long-eared bat (<i>Myotis septentrionalis</i>)	Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Vermont, Virginia, West Virginia, Wisconsin, and Wyoming		handle, identify, band, and attach radio transmitters	
TE 237537-2	Missouri Botanical Garden, St. Louis, MO	Price's potato bean (<i>Apios priceana</i>), Cumberland sandwort (<i>Arenaria cumberlandensis</i>), Mead's milkweed (<i>Asclepias meadii</i>), Guthrie's (=Pyne's) ground-plum (<i>Astragalus bibullatus</i>), decurrent false aster (<i>Boltonia decurrens</i>), Cumberland	On lands under Federal jurisdiction in Alabama, Illinois, Kentucky, Mississippi, Missouri,	<i>Ex situ</i> seed banking, artificial propagation, conservation research, educational display, and	Remove and reduce to possession (collect) seeds and leaves	Renewal/ Amendment

		rosemary (<i>Conradina verticillata</i>), leafy prairie clover (<i>Dalea foliosa</i>), tiny tim (<i>Geocarpon minimum</i>), Virginia sneezeweed (<i>Helenium virginicum</i>), fleshyfruit gladeceess (<i>Leavenworthia crassa</i>), Mohr's Barbara's button (<i>Marshallia mohrii</i>), Missouri bladderpod (<i>Physaria filiformis</i>), Short's bladderpod (<i>Physaria globosa</i>), Virginia spiraea (<i>Spiraea virginiana</i>), running buffalo clover (<i>Trifolium stoloniferum</i>), and Tennessee yellow-eyed grass (<i>Xyris tennesseensis</i>)	Tennessee, Virginia, and West Virginia	genetic analyses		
TE 059008-9	CCR Environmental, Inc., Atlanta, GA	REPTILES: Eastern indigo snake (<i>Drymarchon corais couperi</i>), gopher tortoise (<i>Gopherus polyphemus</i>), yellow-blotched map turtle (<i>Graptemys flavimaculata</i>), ringed map turtle (<i>Graptemys oculifera</i>), black pine snake (<i>Pituophis melanoleucus lodingi</i>), Alabama red-bellied turtle (<i>Pseudemys alabamensis</i>), and flattened musk turtle (<i>Sternotherus depressus</i>); AMPHIBIANS: Reticulated flatwoods salamander (<i>Ambystoma bishopi</i>), frosted flatwoods salamander (<i>Ambystoma cingulatum</i>), Black warrior (=Sipsey Fork) waterdog (<i>Necturus alabamensis</i>), Red Hills salamander (<i>Phaeognathus hubrichti</i>), and dusky gopher frog (<i>Rana sevosa</i>); FISH: 45 species; FRESHWATER MUSSELS: 81 species;	Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, South Carolina, and Tennessee	Presence/absence surveys	Capture, identify, release, and salvage relict shells	Renewal/Amendment

		FRESHWATER GASTROPODS: 12 species; CRAYFISH: Nashville crayfish (<i>Orconectes shoupi</i>)				
TE 59798B-2	Daguna Consulting, LLC, Rochester, MN	Dwarf wedgemussel (<i>Alasmidonta heterodon</i>), yellow lance (<i>Elliptio lanceolata</i>), and James spinymussel (<i>Pleurobema collina</i>)	Virginia	Presence/absence surveys	Capture, handle, identify, measure, age by examining growth rings, sex, photograph, PIT-tag or plastic shell tag, mark, and release	Amendment
TE 13910A-3	Terry L. Derting, Murray State University, Murray, KY	Gray bat (<i>Myotis grisescens</i>), Indiana bat (<i>Myotis sodalis</i>), northern long-eared bat (<i>Myotis septentrionalis</i>), Virginia big-eared bat (<i>Corynorhinus townsendii virginianus</i>), and Ozark big-eared bat (<i>Corynorhinus townsendii ingens</i>)	Georgia, Indiana, Kentucky, Ohio, Tennessee, and West Virginia	Presence/absence surveys, habitat use studies, population monitoring, and studies to evaluate potential impacts of white-nose syndrome or other threats	Enter hibernacula or maternity roost caves, salvage dead bats, capture with mist nets and harp-traps, handle, identify, collect hair, band, attach radio-transmitters, light-tag, swab, and wing-punch	Renewal

TE 89785B-1	North Florida Wildlife, LLC, Crawfordville, FL	Red-cockaded woodpecker (<i>Picoides borealis</i>)	Alabama, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Texas, and Virginia	Population management and monitoring	Capture, band, monitor nest cavities, construct and monitor artificial nest cavities and restrictors, and translocate	Renewal
TE 34778A-3	U.S. Geological Survey, Blacksburg, VA	Gray bats (<i>Myotis grisescens</i>), Indiana bat (<i>Myotis sodalis</i>), northern long-eared bat (<i>Myotis septentrionalis</i>), and Virginia big-eared bat (<i>Corynorhinus townsendii virginianus</i>)	Alabama, Arkansas, Connecticut, Delaware, District of Columbia, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina,	Presence/absence surveys, habitat use studies, population monitoring, and studies on potential impacts of white-nose syndrome or other threats	Enter hibernacula or maternity roost caves, salvage dead bats, capture with mist nets or harp traps, handle, identify, collect hair samples, band, radio tag, light-tag, swab, and wing-punch	Renewal

			South Dakota, Tennessee, Texas, Vermont, Virginia, West Virginia, Wisconsin, and Wyoming			
TE 84997D-0	James V. Freeman, Williston, FL	<i>Cereus eriophorus</i> var. <i>fragrans</i> (fragrant prickly-apple) and <i>Harrisia</i> (= <i>Cereus</i>) <i>aboriginum</i> (= <i>gracilis</i>) (aboriginal prickly-apple)	Florida	Interstate commerce	Sell artificially propagated plants in interstate commerce	New
TE 087191-6	Sandhills Ecological Institute, Southern Pines, NC	Red-cockaded woodpecker (<i>Picoides borealis</i>)	North Carolina and South Carolina	Disease research	Capture and recapture birds that exhibit Avian Keratin Disorder to monitor their fate in the population.	Amendment
ES 56588D-2	Martin J. Melville, Marietta, GA	FISH: Spring pygmy sunfish (<i>Elassoma alabamae</i>), vermillion darter (<i>Etheostoma chermocki</i>), watercress darter (<i>Etheostoma nuchale</i>), and Cahaba shiner (<i>Notropis cahabae</i>); FRESHWATER MUSSELS: Purple cat's paw (=purple cat's paw pearlymussel) (<i>Epioblasma obliquata obliquata</i>), Alabama pearlshell (<i>Margaritifera marrianae</i>), black clubshell (<i>Pleurobema curtum</i>), dark pigtoe (<i>Pleurobema furvum</i>), flat pigtoe (<i>Pleurobema marshalli</i>), heavy pigtoe (<i>Pleurobema taitianum</i>), inflated	Alabama and Virginia	Presence/ absence surveys	Capture, handle, identify, release, and salvage relict shells	Amendment

		heelsplitter (<i>Potamilus inflatus</i>), and stirrupshell (<i>Quadrula stapes</i>)				
PER 0009923	South Carolina Department of Natural Resources, Columbia, SC	Carolina heelsplitter (<i>Lasmigona decorata</i>)	South Carolina	Captive propagation for research and reintroduction	Capture, hold in captivity for more than 45 consecutive days, toxicity testing and other studies, and reintroduction	New
TE 121073-3	Christopher E. Skelton, Madison, GA	FISH: Laurel dace (<i>Chrosomus saylori</i>), blue shiner (<i>Cyprinella caerulea</i>), bluemask darter (<i>Etheostoma akatulo</i>), Etowah darter (<i>Etheostoma etowahae</i>), duskytail darter (<i>Etheostoma percnurum</i>), Cherokee darter (<i>Etheostoma scotti</i>), Cumberland darter (<i>Etheostoma susanae</i>), boulder darter (<i>Etheostoma wapiti</i>), palezone shiner (<i>Notropis albizonatus</i>), smoky madtom (<i>Noturus baileyi</i>), chunky madtom (<i>Noturus crypticus</i>), pygmy madtom (<i>Noturus stanauli</i>), amber darter (<i>Percina antesella</i>), goldline darter (<i>Percina aurolineata</i>), Conasauga	Alabama, Florida, Georgia, and Tennessee	Presence/ absence surveys	Capture, handle, identify, release, and salvage relict shells	Renewal

		<p>logperch (<i>Percina jenkinsi</i>), snail darter (<i>Percina tanasi</i>), and blackside dace (<i>Phoxinus cumberlandensis</i>);</p> <p>FRESHWATER MUSSELS: Fat threeridge (mussel) (<i>Amblema neislerii</i>), purple bankclimber (mussel) (<i>Elliptoideus sloatianus</i>), Altamaha spinymussel (<i>Elliptio spinosa</i>), upland combshell (<i>Epioblasma metastrata</i>), southern acornshell (<i>Epioblasma othcaloogensis</i>), southern combshell (<i>Epioblasma penita</i>), fine-lined pocketbook (<i>Lampsilis altilis</i>), orangenacre mucket (<i>Lampsilis perovalis</i>), shinyrayed pocketbook (<i>Lampsilis subangulata</i>); Coosa moccasinshell (<i>Medionidus parvulus</i>), Gulf moccasinshell (<i>Medionidus pencillatus</i>), Ochlockonee moccasinshell (<i>Medionidus simpsonianus</i>), southern clubshell (<i>Pleurobema decisum</i>), southern pigtoe (<i>Pleurobema georgianum</i>), Georgia pigtoe (<i>Pleurobema hanleyianum</i>), flat pigtoe (<i>Pleurobema marshalli</i>), ovate clubshell (<i>Pleurobema perovatum</i>), oval pigtoe (<i>Pleurobema pyriforme</i>), and triangular kidneyshell (<i>Ptychobranhus greeni</i>);</p> <p>FRESHWATER GASTROPOD: Interrupted (=Georgia) rocksnail (<i>Leptoxis foremani</i>);</p> <p>CRAYFISH: Nashville crayfish (<i>Orconectes shoupi</i>)</p>				
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TE 111326-3	Christopher A. Fleming, Nashville, TN	Nashville crayfish (<i>Orconectes shoupi</i>)	Tennessee	Presence/ absence surveys	Capture, identify, sex, and measure	Renewal
PER 0010455	Kira Lindelof, North Carolina University, Raleigh, NC	<i>Hedyotis purpurea</i> var. <i>montana</i> (Roan Mountain bluet)	Pisgah National Forest, North Carolina	Research on genetics and habitable range	Tissue and seed collection, propagation, and augmentation	New
TE 37652B-1	Blue Ridge Parkway, National Park Service, Asheville, NC	<i>Helianthus verticillatus</i> (whorled sunflower)	Blue Ridge Parkway, Franklin County, Virginia	Voucher specimen for species confirmation	Collection of stem, leaves, and flowers	Amendment
TE 807672- 19	Joseph H. Carter, Southern Pines, NC	Red-cockaded woodpecker (<i>Picoides borealis</i>)	Alabama, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina,	Population management and monitoring and investigation of possible	Capture, band, monitor nest cavities, construct and monitor artificial nest cavities and	Renewal

			Texas, and Virginia	parasites and infections	restrictors, translocate, recapture to remove color bands, and swab	
TE 676379-6	NOAA/National Marine Fisheries Service, Southeast Fisheries Science Center, Pascagoula, MS	Leatherback sea turtle (<i>Dermochelys coriacea</i>), hawksbill sea turtle (<i>Eretmochelys imbricata</i>), and Kemp's ridley sea turtle (<i>Lepidochelys kempii</i>)	Alabama, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina, and Texas	Population monitoring	PIT-tag and flipper tag stranded, incidentally captured, cold-stunned, and rehabilitated individuals	Amendment
TE 054973-6	Nick M. Haddad, Michigan State University, Hickory Corners, MI	Saint Francis' satyr butterfly (<i>Neonympha mitchellii francisci</i>)	North Carolina	Population monitoring, scientific research, captive propagation, and reintroduction	Capture up to 20 adult butterflies annually for captive rearing and breeding and transport specimens to Michigan State University	Amendment
TE 65346A-2	Matthew S. Roberts, Richmond, KY	Gray bat (<i>Myotis grisescens</i>), Indiana bat (<i>Myotis sodalis</i>), and northern long-eared bat (<i>Myotis septentrionalis</i>)	Alabama, Arkansas, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Mississippi, Missouri,	Presence/absence surveys, population monitoring, and studies to document habitat use	Enter hibernacula or maternity roost caves, capture with mist nets or harp traps, handle, identify, band, radio-tag, collect hair samples, and salvage	Renewal

			Montana, Nebraska, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Vermont, Virginia, West Virginia, Wisconsin, and Wyoming			
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Authority

We publish this notice under section 10(c) of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 *et seq.*).

John Tirpak,
Deputy Assistant Regional Director,
Ecological Services.

[FR Doc. 2021-14683 Filed: 7/9/2021 8:45 am; Publication Date: 7/12/2021]